

SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

ORLEN OIL Superol M CC 15W-40

Made on: 24.01.2022

Updated on: -

Version: 1.0 EN

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product identifier

Trade name: **ORLEN OIL Superol M CC 15W-40**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: mineral engine oil

Uses advised against: other applications are not recommended

1.3. Details of the supplier of the safety data sheet

Supplier: **ORLEN OIL Sp. z o.o.**
Address: 31-323 Kraków, ul. Opolska 114
Telephone/Fax No.: +48 12 66 555 00 / +48 12 66 555 01
Information on quality matters: + 48 242010367, +48 242869509, +48 242869556

E-mail address for a competent person responsible for SDS: msds@orlenoil.pl

1.4. Emergency telephone number:

+ 48 242010367, +48 242869509, +48 242869556 (from Monday to Friday during business hours: from 7.00 a.m to 3.00 p.m.)

In case of emergency call 112 (Emergency number), 998 (Fire Brigade), 999 (Ambulance Service)

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

	Classification	According to Regulation (EC) No. 1272/2008 (CLP):
risks		
resulting from physicochemical properties:		Product is not classified as hazardous
for humans:		Product is not classified as hazardous
for environment:		Product is not classified as hazardous

2.2. Label elements

Hazard pictogram: None

Signal word: None

Hazard statements: None

Other information on label: None

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2.3. Other hazards

No data regarding PBT or vPvB criteria according to Annex XIII of REACH Regulation.
The components of the mixture are not identified as having endocrine disrupting properties.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances – not applicable

3.2. Mixtures: a mixture of mineral base oils and additives

Substance name/ REACH registration number	CAS No/ EC No	% wt.	Classification according to EC Regulation No.1272/2008 (CLP)
Distillates (petroleum), hydrotreated heavy paraffinic. Unspecified base oil 01-119484627-25-XXXX	64742-54-7/ 265-157-1	~94	Substance not classified as hazardous
Highly refined mineral oil	*	<1,2	Asp.Tox.1;H304
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 01-2119493626-26	84605-29-8/ 283-392-8	0,31<c<0,5	Aquatic Chronic 2;H411 Eye Dam.1; H318 Skin Corr. 2; H315
Phenol, dodecyl-, branched 01-2119513207-49-0002	121158-58-5/ 310-154-3	<0,0063	Aquatic Acute 1;H400 (M=10) Aquatic Chronic 1;H410 (M=10) Eye Irrit.2; H319 Rep.1B;H360F Skin Corr.1C;H314

* Contains at least one of the following EINECS numbers: 265-157-1, 265-169-7, 265-158-7, 265-159-2 and REACH registration numbers: 01-211948-4627-25, 01-2119487077-29, 01-2119471299-27, 01-2119480132-48.

Description of H phrases is given in Section 16.

Base oils applied in the mixture are not classified as carcinogenic. DMSO extract content (according to IP 346) <3%. Based on viscosity it does not pose hazard by aspiration.

See section 15. Substances on the Candidate List (Substances of Very High Concern) for SVHC.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation:

Remove the victim (move/carry) from the exposure area to fresh air and keep warm and quiet. Place an unconscious person in the recovery position, loosen tight parts of clothes; control and maintain patency of the airways. Give oxygen in the case of breathing disorders; if not breathing, use artificial ventilation. In the case of loss of consciousness, respiratory disorders or persisting symptoms obtain medical aid immediately.

Skin contact:

Immediately remove contaminated/soaked clothes and shoes. Thoroughly wash contaminated skin with soapy water or mild detergent, and then rinse with water. Consult a doctor if irritation symptoms appear and persist.
NOTE: Take off contaminated/soaked clothes and remove it to a safe place, far from heat and ignition sources.

Eye contact:

Flush the contaminated eyes with running water, remove contact lenses (if worn) and continue flushing for approx. 15 minutes. When flushing, keep the eyelids wide open and move the eyeball. Consult a doctor if symptoms appear and persist.

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NOTE: Do not use a stream of water which is too strong, it may damage the cornea.

Swallowing:

Do not induce vomiting. In the case when spontaneous vomiting occurs, keep the victim leaning forward, with her/his face directed to the ground. Obtain medical aid.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: in case of prolonged contact may cause redness, skin dryness, allergic reactions.

Eye contact: possible redness, tearing, irritation.

Ingestion: abdominal pain, nausea, vomiting.

Inhalation: prolonged inhalation of vapours or frequent exposure of the respiratory system may cause slight irritation of the respiratory system

4.3. Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

Indications for a physician: Symptomatic treatment.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide, dry powder, foam; water spray

Unsuitable extinguishing media: water jet.

5.2. Special hazards arising from the substance or mixture

Flammable liquid with high ignition temperature. In the fire environment smokes containing carbon oxides and other unidentified thermal decomposition products of higher hydrocarbons are formed. Avoid breathing products being released in the fire environment - they may be hazardous for health.

5.3. Advice for firefighters

Proceed in accordance with procedures applicable for extinguishing chemical fire. In the case of fire involving great amounts of the product, remove all bystanders not participating in action; call emergency brigades and the Fire Brigade.

Cool the containers exposed to fire or high temperature with water spray from a safe distance, if possible and remove them from the endangered area.

Prevent the wastewater after fire extinguishing from penetrating sewage and water tanks. Remove wastewater and residue after firefighting in accordance with valid regulations.

People participating in the fire-extinguishing action should be properly trained, equipped with a full protective clothing and a self-containing breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use individual protection measures – see section 8 of the Safety Data Sheet.

Limit the access of bystanders to the endangered area until proper cleaning operations are finished. In case of great leakage isolate the endangered area. Ensure that breakdown and its results are eliminated by a properly trained staff only.

Avoid contact with the eyes, skin and clothes. Do not inhale vapours or mist. If release occurred in closed area, ensure adequate ventilation.

NOTE: Spilled oils can make surfaces slippery. Remove all sources of ignition – extinguish open fire, do not smoke.

6.2. Environmental precautions

If it is possible and safe, stop or limit product release. Limit spreading of the great leakages by embanking the area. Prevent the product from penetrating drains, waters or soil. Notify respective authorities (occupational safety and hygiene, emergency brigades, environmental brigades and organs of administration).

6.3. Methods and material for containment and cleaning up

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Cover up small spillage with non-flammable, neutral absorbent material (sand, soil, diatomic earth, vermiculite) and collect in an appropriate, closed, labelled waste bin. Clean the contaminated area with water with detergent, and then rinse with water. Pump off large amounts of liquid. Dispose of according to the applicable regulations. If necessary, obtain help from specialist companies dealing with waste transport and utilisation in order to remove the product/absorbent material contaminated with the product.

6.4. Reference to other sections

See also sections 8 and 13 of the Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide effective ventilation. Avoid contact with the eyes, skin and clothes. Avoid vapour and fog inhalation. Keep unused containers tightly closed. Essential hygiene rules should be observed: do not eat, drink or smoke during work, wash hands with soapy water after work/after break in work. Do not use contaminated clothing; Immediately remove contaminated clothing and wash before reuse. NOTE: Take off contaminated/soaked clothes and remove it to a safe place, far from heat and ignition sources. Use individual protection measures in accordance with the information contained in section 8 of the Safety Data Sheet.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly sealed and properly labelled containers, at cool, well ventilated place with non-absorbent substrate. The product can be stored in storage tanks in accordance with applicable regulations. Store away from heat sources, protect from direct sunlight. Protect the product against contamination and watering.

Keep away from strong oxidisers. Storage temperature: -20 – 40 °C.

7.3. Specific end use(s)

None.

SECTION 8. EXPOSURE CONTROL AND PERSONAL PROTECTION EQUIPMENT

8.1. Control parameters

Product does not contain any components with occupational exposure limit values at working place in the Community.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU

Please check also any national occupational exposure limit values in your country.

Poland

Highly refined mineral oils – inhaled fraction: TLV-TWA: 5 mg/m³, TLV-STEL: - mg/m³, TLV-C: –

Regulation of the Minister of Family, Work and Social Policy dated June 12th, 2018 on the maximum occupational levels of factors hazardous to health at the workplace (Dz.U. 2018, item 1286)

8.2. Exposure controls

Appropriate engineering controls:

General ventilation and/or local fume hood in order to maintain hazardous agent concentration in air below acceptable limits.

Eye or face protection:

Tight safety eyeglasses (goggles) in the case of prolonged exposure or the risk of liquid splashing to the eye. It is recommended to equip the workplace with a water shower to flush eyes.

Skin protection:

Wear impermeable, oil resistant gloves (e.g. perbutane, viton, butyl rubber). Glove material should be selected with consideration to the breakthrough time (recommended minimum 30 min.), permeability rate (recommended: minimum level 2) and degradation. It is recommended to change gloves regularly and replace

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them immediately if any signs of wear or damage (tearing, puncture) or changes in appearance (colour, flexibility, shape) occur. Wear protective apron or protective suit made of coated, product-resistant fabrics; oil-resistant, anti-slippery shoes.

Respiratory protection:

Not required under normal conditions of use. In the case of exceeding the acceptable limits or inadequate ventilation use the approved respirator equipped with a suitable filter or filter-absorber. For activities in the limited space / insufficient oxygen content in air / high uncontrolled emission / any circumstances, in which the mask does not provide adequate protection, use self-contained breathing apparatus.

Thermal hazards:

Not applicable

Environmental exposure controls:

Consider using precautionary measures in order to protect the area around storage tanks.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Physical state:	: Liquid
b) Colour:	: amber to brown
c) Odour:	: characteristic for hydrocarbons
d) Melting point/freezing point:	: max - 24 °C (pour point)
e) Boiling point or initial boiling point and boiling range :	: not determined
f) Flammability:	: not applicable
g) Flash point:	: min. 210 °C
h) Auto-ignition temperature:	: not determined
i) Decomposition temperature:	: not determined
j) pH:	: not applicable
k) Kinematic viscosity:	: 14,2mm ² /s (100 °C)
l) Solubility:	: Insoluble in water. Soluble in hydrocarbon solvents
m) Partition coefficient n-octanol/water (log value):	: not determined
n) Vapour pressure:	: 0,885 g/cm ³ (15 °C)
o) Density and/or relative density:	: not determined
p) Relative vapour density:	: not determined
q) Particle characteristics:	: not applicable

9.2. Other information

None

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive.

10.2. Chemical stability

The product is stable under normal ambient conditions, as well as under the expected temperature and under the expected pressure at storage and at handling.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid:

High temperature, open flame and other ignition sources.

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10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicity of components:

Acute toxicity: data for base oil:

Distillates (petroleum), hydrotreated heavy paraffinic [CAS 64742-54-7]:

LD50: >5000 mg/kg (oral, rat)

LC50: >5 mg/l (4h, inhalation, rat)

LD50: >5000 mg/kg (skin, rabbit)

Toxicity of mixture:

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT – single exposure:

Based on available data, the classification criteria are not met.

STOT – repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

See subsection 4.2 for more information on the effects from each possible route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

No data available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Aquatic environment:

Toxicity of components:

Distillates (petroleum), hydrotreated heavy paraffinic [CAS 64742-54-7]:

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EC50: >10000 mg/l – acute toxicity test on fresh-water invertebrates; Daphnia magna, 48h
NOEL: 100 mg/l – chronic toxicity test on invertebrates; Daphnia magna, 21 days
EC50: >100 mg/l – acute toxicity test on fresh-water algae; Pseudokirchinella subcapitata, 72h
LC50: >100 mg/l – acute toxicity test on fresh-water fish; Pimephales promelas, 96h
NOEL: >1000 mg/l – chronic toxicity test on fresh-water fish; Oncorhynchus mykiss, QSAR, 28 days

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

LC 50 (Rainbow trout, 4 d): 4.5 mg / l
LC 50 (Sheephead lamprey, 4 d): 46 mg / l
NOEC (Rainbow Trout, 4 d): 1.8 mg / l
EC50 (Water flea, 2d): 23 mg / l
NOEC (Water flea, 2 d): 10 mg / l
EC50 (Water flea, 21d): > 0.8 mg / l
NOEC (Water flea, 21d): 0.4 mg / l
EC50 (Green Algae, 3 d): 21 mg / l
NOEC (Green Algae, 3 d): 10 mg / l
EC50 (semi-solid mass, 0.1 d): > 10,000 mg / l

Phenol, dodecyl-, branched

LC 50 (Fat-head lamprey, 4d): 40 mg / l
EC50 (Water flea, 2 d): 0.037 mg / l
EC50 (Shrimp (Mysidopsis Bahía), 4d): > 0.58 mg / l
EC50 (Water flea, 21 d): 0.0079 mg / l
NOEC (Water flea, 21 d): 0.0037 mg / l
EC50 (Green Algae, 72 h): 0.36 mg / l
EC50 (semi-solid, 0.1 d): > 1,000 mg / l

Toxicity of mixture:

The product is not classified as hazardous to the environment.

12.2 Persistence and degradability

No data for the mixture.

Data for components:

Distillates (petroleum), hydrotreated heavy paraffinic [CAS 64742-54-7]

Not easily biodegradable. 31.13% biodegradation within 28 days.

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Not easily biodegradable. 1.5% biodegradation within 28 days.

Phenol, dodecyl-, branched

Not easily biodegradable. 25% biodegradation within 28 days.

12.3. Bioaccumulative potential

No specific data available for the mixture.

Data for components:

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Log Kow: 0.56 (Measured)

Phenol, dodecyl-, branched

Bioconcentration Factor (BCF): 794.33 (Measured)

Log Kow: 7.14

12.4. Mobility in soil

The product is not soluble in water and lighter than water. It accumulates on the water surface, forming a layer that hinders oxygen exchange. High molecular weight hydrocarbons may sediment in the water. The

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product may penetrate into the soil and contaminate groundwater.

12.5. Results of PBT and vPvB assessment

Substances included in the product do not meet the PBT and vPvB criteria.

12.6. Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

12.7. Other adverse effects

The mixture is not classified as hazardous to aquatic life. The mixture is not classified as hazardous for the ozone layer. Other harmful effects of particular components of the mixture on the environment (e.g.: the impact on the global warming) should be considered.

SECTION 13. HANDLING OF WASTES

13.1. Waste treatment methods

Recommended waste code: **13 02 05*** mineral-based non-chlorinated engine gear and lubricating oils.

NOTE: Since waste code is assigned based on the source of origin, the end user should define the obtained wastes and assign a proper code, taking into consideration specific conditions of use, in accordance with applicable regulations.

Soaked clothes, papers or other organic materials should be collected and utilised in an controlled way.

Do not dispose to sewer. Avoid contamination of surface and ground waters. Consider reuse. Waste product should be recovered or utilised at professional, approved furnaces or waste recycling/neutralization facilities, in accordance with applicable regulations.

Recovery / recycling / utilisation of package wastes should be performed according to the applicable regulations. NOTE: Only completely emptied and cleaned packages may be returned for recycling. Use services of authorised companies.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

SECTION 14. TRANSPORT INFORMATION

The product is not a subject to transport regulations on hazardous goods included in ADR (road transport), RID (rail transport), IMDG (marine transport) and ICAO/IATA (air transport).

14.1. UN number or ID number	Not applicable
14.2. UN Proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for users	Not applicable
14.7. Maritime transport in bulk according to IMO instruments	Not applicable

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

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amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC as amended.

ADR Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG Code International Maritime Dangerous Goods Code.

IATA Dangerous Goods Regulations.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Substances listed on the Candidate List of Substances of Very High Concern (SVHC), published by ECHA in accordance with Art. 59 sec. 10 of Regulation (EC) No 1907/2006 REACH:

Phenol, dodecyl-, branched EC: 310-154-3: <0.0063%

15.2. Chemical safety assessment

Chemical safety assessment is not required for a mixture.

SECTION 16. OTHER INFORMATION

Abbreviations and acronyms in the Safety Data Sheet

TLV-TWA	Threshold Limit Value
TLV-STEL	Threshold Limit Value, Short Term Exposure Limit
TLV-C	Ceiling exposure limit
vPvB	very Persistent, very Bioaccumulative (substance)
PBT	Persistent, bioaccumulative, and toxic (substance)
PNEC	Predicted No Effect Concentration
DN(M)EL	Derived No Effect Level
LD ₅₀	Dose that will kill 50% of the test animals
LC ₅₀	Concentration that will kill 50% of the test animals
EC _x	Concentration at which x% inhibition of growth or growth rate is observed
LOEC	Lowest Observed Effect Concentration
NOEL	No Observed Effect Concentration
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
ADR	Agreement on Dangerous Goods by Road
IMDG	International Maritime Transport of Dangerous Goods
IATA	International Air Transport Association
UVCB	Unknown substances, of Variable Composition, or of Biological Origin

References:

Legal regulations quoted in sections 2 – 15 of the Safety Data Sheet.

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The list of applicable H-phrases

H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H360F - May damage fertility or the unborn child.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.

Advice on training for employees:

Employees who use the product should be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

This SDS is not a quality certificate for the product. All data presented in this sheet are to be taken only as a help in safe handling in transport, distribution, use and storage. Persons handling the product should be informed about risks and precautionary measures. Information in the Safety Data Sheet relates to the above mentioned product and its specified uses only. They may be obsolete or insufficient for this product used in conjunction with other materials or in different applications than those specified in the Safety Data Sheet.

The user is obliged to follow all applicable standards and regulations and is also responsible for inappropriate use of information contained in this sheet or for an inappropriate use of the product. In the case of special applications evaluate exposure and develop the appropriate procedure and training programs in order to ensure safety at work.
